


CURRICULUM VITAE

1. Family Name:	Shala	
2. First Name:	Ahmet	
3. Nationality:	Albanian	
4. Citizen:	Kosovar, Republic of Kosovo	
5. Date of Birth:	17.10.1968	
6. Gender:	Male	
7. Contact details:	Office 604	
<i>Email/Website</i>	ahmet.shala@uni-pr.edu / www.ahmetshala.com	
<i>Phone:</i>	+377-44-296833	
8. Education Degree:	Doctor of Technical Science	
<i>Institution:</i>	University of Prishtina / Faculty of Mechanical Engineering	
<i>Degree Date:</i>	07.04.2005	
<i>Degree/Thesis :</i>	Doctor of Technical Science / Control of kinematic and dynamics parameters using Fuzzy Neural Network Controllers of mobile robots.	
<i>Institution:</i>	University of Prishtina / Faculty of Mechanical Engineering	
<i>Degree Date:</i>	11.07.1998	
<i>Degree/ Master Thesis :</i>	Magistrate of Technical Science / Comparative study of using Neural Networks for trajectory tracking of manipulated robots.	
<i>Institution:</i>	University of Prishtina / Faculty of Mechanical Engineering	
<i>Degree Date:</i>	15.10.1993	
<i>Degree / Doctoral Thesis :</i>	Mechanical Engineer / Review of possibilities for decrease of mathematical operations of robot dynamics using symbolic methods.	
9. Academic Degree:	Full Professor	
<i>Institution:</i>	University of Prishtina / Faculty of Mechanical Engineering	
<i>Degree Date:</i>	23.07.2018	
10. Scientific Publications	<p>Ahmet Shala WEB of SCIENCE Researcher ID: L-2189-2014</p> <p>Ahmet Shala WEB of SCIENCE Publons ID: https://publons.com/researcher/1379551/ahmet-shala/</p> <p>Ahmet Shala SCOPUS ID: https://www.scopus.com/authid/detail.uri?authorId=12645467400</p>	
10. a. Publications/Scientific Papers/International Researches:	<ul style="list-style-type: none"> ➤ Arbnor Pajaziti, Xhevahir Bajrami, Ahmet Shala, Ramë Likaj, Lum Rexha, Astrit Zekaj, Dibran Hoxha. Analysis of the Stability, Control and Implementation of Real Parameters of the Robot Walking, Advances in Intelligent Systems and Computing, publisher Springer, 2019. ➤ Arbnor Pajaziti, Xhevahir Bajrami, Ahmet Shala, Ramë Likaj. Dynamic walking experiments for humanoid robot, Advances in Intelligent Systems and Computing, publisher Springer, 2018. ➤ Ahmet Shala, Ramë Likaj*. “Dynamic Modelling of 3 DoF Robot Manipulator”, Journal Acta Technica Corviniensis - Bulletin of Engineering, Volume 11, Issue 2, pp. 95-98, 2018. ➤ Gëzim Hoxha, Ahmet Shala, Ramë Likaj, Xhevahir Bajrami*. “Mathematical Model for Velocity Calculation of Three Types of Vehicles in the Case of Pedestrian Crash” Journal of Mechanical Engineering - Strojnícky casopis, DOI: https://doi.org/10.2478/scjme-2018-0029 , Volume 68, Issue 3, pp. 95-110, 2018. ➤ Xhevahir Bajrami, Ahmet Shala, Ramë Likaj, Gëzim Hoxha *. “Dynamic Modelling and Analyzing of a Walking of Humanoid Robot” Journal of Mechanical Engineering - Strojnícky casopis, DOI: https://doi.org/10.2478/scjme-2018-0027 , Volume 68, Issue 3, pp. 59-76, 2018. 	

- Rifat Krasniqi, Ilir Doçi, Ahmet Shala, Rinor Berisha*. “Regulation of Traffic Flow in Small Cities with High Number of Vehicles: Case of Malisheva City – Kosovo” International Review of Civil Engineering (IRECE), DOI: <https://doi.org/10.15866/irece.v9i4.14300> , Volume 9, Issue 4, pp. 161-167, 2018.
- Ramë Likaj, Ahmet Shala*. “Optimisation and Control of Vehicle Suspension Using Linear Quadratic Gaussian Control” Journal of Mechanical Engineering - Strojnícky casopis, DOI: <https://doi.org/10.1515/scjme-2018-0006>, Volume 68, Issue 1, pp. 61-68, 2018.
- Ahmet Shala, Mirlind Bruçi*. “Proposed Robot Scheme with 5 DoF and Dynamic Modelling Using Maple Software”. Strojnícky casopis – Journal of Mechanical Engineering, Volume 67, Issue 2, pp. 101-108, 2017. DOI: <https://doi.org/10.1515/scjme-2017-0023> .
- Gezim Hoxha, Ahmet Shala*, Ramë Likaj. “Vehicle Speed Determination in Case of Road Accident by Software Method and Comparing of Results with the Mathematical Model”. Strojnícky casopis – Journal of Mechanical Engineering, Volume 67, Issue 2, pp. 51-60. 2017. DOI: <https://doi.org/10.1515/scjme-2017-0017> .
- Ahmet Shala, Xhevahir Bajrami*, Ramë Likaj. “Dynamic Modeling and Simulation of the Autopilot by using Fuzzy Logic”, International Journal of Mechanical Engineering and Technology, Volume 8, Issue 9, pp. 407-413, 2017.
- Ramë Likaj, Ahmet Shala*. “Design of Automatic System with Hydrostatic Transmission”, ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Year XV, Issue 2, pp. 159-162, Faculty of Engineering Hunedoara, 2017.
- Ramë Likaj, Ahmet Shala*. “Application of Graph Search Algorithm Dijkstra to find Optimal Solution for the Problem of Transport”, Journal ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Year XV, Fascicule 4, pp. 69-72, UPT/Faculty of Engineering Hunedoara, 2017.
- Ahmet Shala, Mirlind Bruçi*, Xhevahir Bajrami. “Modelling of the biped robot using Maple software”, Journal Applied Technologies and Innovations, Volume 13, Issue 1, pp. 12-20, Prague Development Center (PRADEC), 2017.
- Ramë Likaj, Ahmet Shala*. “Design and Control of Full Vehicle Suspension System”, Journal Acta Technica Corviniensis - Bulletin of Engineering, Volume 10, Issue 4, pp. 77-80, 2017. UPT/Faculty of Engineering Hunedoara.
- Azem Kyçyku, Ahmet Shala*. “Analytical-Graphical Analysis of Various Influences in the Carrying ability of V-Belts with narrow profile”, Journal Acta Technica Corviniensis - Bulletin of Engineering, Volume 10, Issue 4, 2017. UPT/Faculty of Engineering Hunedoara.
- Ramë Likaj, Ahmet Shala*, Xhevahir Bajrami. “Optimal Control of quarter car vehicle suspensions”, International Scientific Journal Trans MotAuto World, Volume 1, Issue 5, pp. 184-186, Scientific Technical Union of Mechanical Engineering “Industry 4.0”, 2017.
- Ramë Likaj, Xhevahir Bajrami, Ahmet Shala*. “Ground Contact in SimMechanics for humanoid Robot”, International Scientific Journal Innovations, Volume 2, Issue 5, pp. 145-150, Scientific Technical Union of Mechanical Engineering “Industry 4.0”, 2017.
- Ahmet Shala, Ramë Likaj*, Xhevahir Bajrami, Mehmet Qelaj. “Analysis of Kinematics of four-bar linkage Mechanism based on given Program”, International Scientific Journal Machines Technologies Materials, Volume 11, Issue 9, pp. 429-434, Scientific technical Union of Mechanical Engineering “Industry 4.0”, 2017.
- Automatic Design of Technological Process of Forging, (co-authors: Bruçi, Mirlind; Likaj, Rame; Qehaja, Nexhat) International Journal of Mechanical Engineering and Technolog), Volume 8, Issue 9, pp. 473-477, 2017.
- Lavdërim Shala, Ahmet Shala*. “File Formats - Characterization and Validation”; Journal IFAC-PapersOnLine, Volume 49, Issue 30, Pages 253-258, 2016. DOI: <https://doi.org/10.1016/j.ifacol.2016.11.062>.
- Ahmet Shala, Ramë Likaj*, Mirlind Bruçi, Xhevahir Bajrami. “Propulsion Effect Analysis of 3Dof Robot under Gravity”, Original Research Article, Journal Procedia Engineering, Volume 100, 2015, Pages 206-212.
- Optimal Design and Analysis of Quarter Vehicle Suspension System by Using Matlab, (co-authors: R. Likaj, M. Bruçi, Xh. Bajrami), Annals of DAAAM and Proceedings of the International DAAAM Symposium. Volume 1 pp. 0082-0090, 2016.
- Digital Currencies, Anonymity in the Bitcoin System; (co-authors: L. Shala, A. Kyçyku): 16th International Multidisciplinary Scientific Ge, 2016, Book 2, Volume 1, pp. 189-196, 2016. DOI: <https://doi.org/10.5593/SGEM2016/B21/S07.025>,
- Optimal Design and Analysis of Vehicle Suspension System, (co-authors: R. Likaj, M. Bruçi, Xh. Bajrami), DAAAM International Scientific Book . 2014, p087-108. 22p.

- Synthesis of Cam mechanism based on given program, (co-author: R. Likaj, M. Bruqi), Original Research Article, Journal: IFAC Proceedings Volumes, Volume 46, Issue 8, 2013, Pages 60-63.
- Application of graph theory to find optimal paths for the transportation problem, (co-authors: R. Likaj, M. Mehmetaj, P. Hyseni, Xh. Bajrami), Original Research Article, Journal: IFAC Proceedings Volumes, Volume 46, Issue 8, 2013, Pages 235-240.
- Kinematics and dynamics modelling of the biped robot , (co-authors: Xh. Bajrami, A. Dermaku, R. Likaj) Original Research Article, Journal: IFAC Proceedings Volumes, Volume 46, Issue 8, 2013, Pages 69-73,
- Modeling and control of a humanoid robot, (co-authors: Xh. Bajrami, P. Kopacek, R. Likaj), Journal e&i Elektrotechnik und Informationstechnik, ISSN 1613-7620, Vol. 130, No. 2, pp. 61-66, 2013.
- Possible experimental method to determine the suspension parameters in a simplified model of passenger car , (co-authors: Sh. Lajqi, J. Gugler, N. Lajqi, R. Likaj), International Journal of Automotive Technology, Vol. 13, No. 4, 615-621, 2012.
- Modelling and Simulation of road Vehicle, (co-authors: E. Hajrizi, R. Likaj), Original Research Article, IFAC Proceedings Volumes, Volume 43, Issue 25, 2010, Pages 65-68,
- Trajectory tracking using integrated sensors on mobile robot, (co-author: Xh. Bajrami), European Championship in football with Robots, Scientific Conference on Robotics, UBT - Prishtina, Kosova, 2011.
- Design and Simulation of an Autopilot by using Fuzzy Logic Controller, (co-author: R. Likaj & Xh. Bajrami), IARP HUDEM'2011, Sibenik, Croatia, 26-28 April, 2011.
- Paper: A fuzzy – genetic algorithm and obstacle path generation for walking robot with manipulator, (co-author: I. Gojani, A. Pajaziti, Sh. Buza); pp. 421-435, and Paper: Synthesis of a sagittal gate for a biped robot during single support phase; (co-author: I. Gojani, A. Pajaziti, Sh. Buza and G. Capi from Fukuoka Institute of Technology Japan) ; pp. 436-452, published as a Part IV Chapter 17 & 18 of scientific book: Using robots in hazardous environments: Landmine detection, de-mining and other applications, Published by Woodhead Publishing, www.woodheadpublishing.com/en/book.aspx?bookID=2041 ISBN 978-1-84569-786-0 (book) & ISBN 978-0-85709-020-1 (e-book), Edited by: Y. Baudoin, Cambridge, UK, 2010.
- Fuzzy Logic Control and 3D Simulation of road Vehicle, (co-author: R. Likaj), 21st International DAAAM Symposium, Zadar, Croatia, Published on Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, Volume 21, No. 1, ISSN 1726-9679 Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, EU, 2010,
- Planar kinematics analysis method of straight line mechanism S35 using vector loops and verification of results experimentally, (co-author: F. Krasniqi, V. Krasniqi), 4th ERGONOMICS, Zagreb, Croatia, 2010.
- Possibilities of a simplified experimental system determining of parameters of the suspension of the passenger cars, (co-author: R. Likaj, J. Gugler, Sh. Lajqi, N. Lajqi) , MOTSP - Zagreb, Croatia, 2010.
- The problem of transport in designing the production systems, (co-author: R. Likaj, M. Bruqi, K. Shala), 11th TMITIP-IE, Chap. 3, pp. 175-184, Bergamo - Italy, 2009.
- Design of Genetic Algorithm for optimisation of Fuzzy Neural Network Controller, (co-author: R. Likaj), 8th International Conference Modern Technologies in Manufacturing, Cluj-Napoca, Romania, 2007.
- Synthesis of a sagittal gate for a biped robot during the single support phase, (co-author: A. Pajaziti, I Gojani, Sh. Buza), ISMCR - 16th ISMC in Robotics, Warsaw, Poland, 2007.
- Contribution to the synthesis for a BIPED during the single support phase, (co-author: A. Pajaziti, I Gojani, Sh. Buza), IFAC – 5th DECOM-TT , Cesme - Izmir, Turkey, 2007.
- Design of WATT-II type of six-bar mechanism using Burmester curves and inversion method, (co-authors: I. Gojani, A. Pajaziti, B. Pira), 16th DAAAM, Opatija, Croatia, 2005.
- Optimization of Biped Gait Synthesis Using Fuzzy Neural Network Controller, (co-author: A. Pajaziti, I Gojani, P. Kopacek), Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference - DETC2005,
- Path-Planning and tracking for a BIPED robot using Fuzzy Neural Network Optimized with Genetic Algorithm, (co-author: I. Gojani, A. Anxhaku, A. Pajaziti), 1st CLAWAR/EURON Workshop on Robots in Entertainment, Leisure, and Hobby, IHRT-TU- Vienna, ISBN 3-902161-04-3, Vienna, Austria, 2004.
- Robotët në procesin e arsimit nëpërmjet lojës së futbollit, (co-author: I. Gojani, A. Pajaziti), Tiranë, 2004.
- Planning Walking Patterns for a BIPED robot using FNN-GA, (co-author: I. Gojani, A. Pajaziti, B. Pira), IARP-HUDEM'04, Brussels, Belgium, 2004.

- New Fuzzy Neural Network design using Genetic Algorithm for trajectory tracking of mobile robot, MECHROB'04, Aachen, Germany, 2004.
- Parametric and Sensivity Analysis of a Vibratory Vehicle Model, (co-author: A. Geca, Ag. Pajaziti, R. Likaj), MTEM-6, Cluj Napojca, Romania, 2003.
- A Fuzzy – Genetic Algorithm and obstacle path generation for Walking Robot, (co-author: I. Gojani, A. Pajaziti, Sh. Buza), IARP-HUDEM'03, Prishtinë, Kosovë, 2003.
- Trajectory tracking by using Fuzzy Logic Controller on mobile robot, (co-author: R. Likaj, A. Geca, Ag. Pajaziti, F. Krasniqi), IARP-HUDEM'03, Prishtinë, Kosovë, 2003.
- Mobile robot navigation using cognition models and genetic algorithm-based approach, (co-author: I. Gojani, A. Pajaziti), DAAM - 23th Symposium, Vienna, Austria, 2002.
- Velocity and torque feedback Control of nonholonomic mobile robot using Fuzzy Neural Network, (co- author: A. Pajaziti, Ag. Pajaziti, R. Likaj), IFAC-SYROCO 2000, Vienna, Austria, 2000.
- Control Scheme for monholonomic Mobile Manipulators by using Neutral Networks, (co-author: I. Gojani, A. Pajaziti, A. Bunjaku), EUROCAST'99. Vienna, Austria, 1999
- New Control Scheme for trajectory tracking of robot manipulator by using Neural Network, (co-author: I. Gojani, A. Pajaziti), INES'98, Vienna, Austria, 1998.

10.b. Publications/Scientific Papers/Researches in region:

- A. Shala, A. Geca. Ekuacionet diferenciale jolineare dhe lineare të lëvizjes së sistemit me katër shkallë lirie dhe analiza e ndikimit të parametrave lëkundës, Revista shkencore profesionale, MAKINERIA Nr. 1, Viti IV, Fakulteti i Makinerisë, Prishtinë, faqe 1-7. 2002
- I. Gojani. A. Pajaziti, A. Shala: Robotët në procesin e arsimit nëpërmjet lojës së futbollit, Tiranë, 2004.
- Problemet e transportit dhe dizajnit të sistemeve prodhuese , (co-author: R. Likaj, Sh. Shabani, M. Bruçi), Takimi i III-te ALB-SHKENCA, Tiranë, Shqipëri, 2008.
- R. Likaj, A. Shala, A. Kyçyku. Dizajnimi optimal i çerekut të automjetit me përdorimin e algoritmeve gjenetike. Akademia e Shkencave dhe Arteve të Kosovës, Revista e Seksionit të Shkencave të Natyrës: Kërkime / Research, Vellimi 21, Faqe 51-68. 2014
- R. Likaj, A. Shala, Sh. Sh.i, M. Bruçi. Problemet e transportit në disajnimin e sistemeve prodhuese. Konferencë e Institutit Alb Shkenca, Tiranë, Shqipëri. 2008
- A. Shala, R. Likaj, F. Krasniqi, M. Bruçi. Disajnimi dhe Simulimi i autopilotit bazuar në Rregullatorët Fuzzy Logjik. Konferencë e Institutit Alb Shkenca, Tiranë, Shqipëri. 2008
- R. Likaj, A. Shala, M. Bruçi, M. Qelaj. Analiza dhe disajnimi i sistemit të varjes për gjysmën anësore të automjetit me 2SHLL. Konferencë e Institutit Alb Shkenca, Tiranë, Shqipëri. 2010
- A. Shala, E. Hajrizi. Përdorimi i Simulinkut 3D për simulim & vizualizim të lëvizjes së automjetit. Konferencë e Institutit Alb Shkenca, Tiranë, Shqipëri. 2010

10.c. Books / Teaching materials: free download www.ahmetshala.com

- Ahmet Shala, Fehmi Krasniqi; Statics – Summary of solved problems and application of software MathCad and IQ100, 2002
- Ahmet Shala; Kinematics - Summary of solved problems and application of software MathCad, 2003
- Ahmet Shala; Summary of seminar tasks in Statics, (co-author: Fehmi Krasniqi), 2003
- Ahmet Shala, Fehmi Krasniqi; Summary of seminar tasks in Kinematics, 2003
- Ahmet Shala; Dynamics – Summary of solved problems and application of Matlab software, 2003
- Ahmet Shala; Applicative Software: MathCad, IQ 100 and Matlab, 2007
- Ahmet Shala; Information and Communication in Transport, 2006
- Ahmet Shala; Fuzzy Neural Networks, 2006

- Ahmet Shala; Control of Kinematic and Dynamics Parameters using Fuzzy Neural Networks Controllers of Mobile Robots, Monograph based on PhD Thesis, UP/FME, April 2005. ISBN-10: 9951074022 ISB-13: 978-9951074025, Published on <https://www.amazon.com/Kinematic-Dynamics-Parameters-Networks-Controllers/dp/9951074022> , 2006.
- Ahmet Shala; Analysis and Synthesis of Mechanisms – Lecture notes, 2007
- Ahmet Shala; Technical Mechanics II – Lecture notes, 2007
- Ahmet Shala; Technical Mechanics II - Solved examples, 2007
- Ahmet Shala; Object Oriented Programming (JAVA) – Lectures and notes, 2009
- Ahmet Shala; Basics of work in Computer, 2010
- Ahmet Shala; Intelligent Manufacturing Systems - Artificial Intelligence - Lectures, 2010
- Ahmet Shala; Information's and Communication's Systems, 2012
- Ahmet Shala; Informatics and Programming, 2013
- Ahmet Shala; Applicative Software's, 2014
- Ahmet Shala; Artificial Intelligence: Monograph, Publisher: LAP LAMBERT Academic Publishing (2017), ISBN-10: 6202199849 , ISBN-13: 978-6202199841. <https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-2-19984-1/artificial-intelligence?>
- Ahmet Shala; System Dynamics and Control, University of Prishtina, ISBN-978-9951-00-218-9, University book, 2017.

Reviewer

- MDPI journals, Basel, Switzerland, <http://www.mdpi.com>
- Tens of books, publisher Faculty of Mechanical Engineering and University of Prishtina.

Professional Editor

- Tens of books, publisher Faculty of Mechanical Engineering.

11. Work experience record:	
<i>Dates:</i>	from 01.10.1994
<i>Location:</i>	Prishtinë
<i>Name of the Institution:</i>	University of Prishtina / Faculty of Mechanical Engineering
<i>Position:</i>	Professor
<i>Description:</i>	Professor for subject courses Bachelor studies: Informatics and Programming, Applicative Software's, Information's and Communication's Systems, Technical Mechanics II, Analysis and Synthesis of Mechanisms. Master studies: Mechatronic Systems in Food Industry, Management of Mechatronic Systems, Artificial Intelligence in Mechatronics.
12. Education and training:	
<i>Year:</i>	2009
<i>Qualification awarded:</i>	Certified for wire rope testing using MD 120B device
<i>Principal subjects/ occupational skills covered:</i>	Testing using electro-magnetic method, non-destructive method for testing of materials
<i>Name of institution:</i>	Meraster & Zawada NDT & AGH University, Krakow – Poland
<i>Level of classification:</i>	International Expert
<i>Year:</i>	2014, 2016, 2018, 2020, -
<i>Qualification awarded:</i>	Expert for company EALGA – Inspection Body authorized for inspection and testing of Elevators, Cranes, Excavators and Cableways for carry of persons.

<i>Principal subjects/ occupational skills covered:</i>	Inspection, Testing Certification of Elevators-Lifts, Cranes, Escalators- moving stairs and Cableways for carry of persons.		
<i>Name of institution:</i>	Republic of Kosovo / Ministry of Trade and Industry		
<i>Level of classification:</i>	Professional Expert		
13. Additional information:			
<i>Organizational skills and competences:</i>	Management, Professional technical approvals - Certification etc.		
<i>Computer skills and competences:</i>	High level of knowledge of Programming Languages and Applicative Software's.		
<i>Language skills: (1 to 5: 1 lowest – 5 fluent)</i>			
<i>Language</i>	Understanding	Speaking	Writing
English	5	4	4
German	3	2	2
Croatian	5	5	5
14. Membership:			
<i>Ministry of Environment and Spatial Planning</i>	Member of Commission for Licencing of Architects and Engineers 2014-ongoing		
<i>Ministry of Education, Science and Technology</i>	NARIC - National Academic Recognition and Information Centre of Kosovo, 2016 – ongoing		
15. International Projects	<ul style="list-style-type: none"> ➤ Upgrade of multidisciplinary studies in field of Mechatronics, in English language. Study program of UP/FME-FECE, supported by WUS Austria, 2010 ➤ Project of analysis and design of 5Dof robot for use on non gravity space. Propulsion Effect Analysis of 5DOF Robot under gravity and non gravity. TU Vienna. 2012. ➤ Project ALLED – “Aligning Education with Labour Market Needs” for upgrade of studies in field of mechatronics for food technology. Supported by WUS Austria and EU & ADA Austria. 2016 ➤ Project MIREC “Metal Industry & Renewable Energy / Cluster of Kosovo, in collaboration with Ministry of Trade and Industry, Metal processing Companies and GIZ & Cluster of Hamburg – Germany. ➤ “EuroRAP” in Kosovo: Kosovo Motorization Association (AMRKS), Faculty of Mechanical Engineering / University of Prishtina, College “Tempulli”, Ministry of Infrastructure, Ministry of Internal Affairs, Institute for Road Safety and Transportation Research and Association of Municipalities of Kosovo. 		